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(71)Applicant : TOYOTA MOTOR CORP

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(54) FUEL CELL DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To improve water exhaust property in a fuel cell by restricting the increase of hydrogen quantity to be exhausted regardless of battery reaction and a large sized fuel cell.

SOLUTION: A fuel cell 20 is provided with a slit structure 60 in an oxide gas supply manifold 58. When a rotary shaft 64 of a cam part 62 is rotatably driven by means of a motor 66 provided for the fuel cell 20, slit plates 74 and 84 provided for the slit structure 60 move. At this time, the slits provided with the slit plates 74 and 84 alternately occlude an inlet part of an oxide gas flow path 35P inside each single cell. By temporarily decreasing the number of oxide gas flow paths 35P to which oxide gas is to be supplied, a pressure of the oxide gas to be supplied to the oxide gas flow path 35P temporarily increases, and water drops that have occluded the flow path are blown away.

